REPORT OF ANALYSIS
PANAMA LABORATORY
OGC LAB TEST: LT – 1502 – 15

LE No. 029

SGS is the world's leading Inspection, Verification, Testing and Certification Company

CLIENT: CHEVRON PRODUCTS ANTILLES Ltd.

CONTACT: Mr. Basilio Calogianis K.

ADDRESS: Terminales Atlántica de Panama, Bahía las Minas, Colon Rep of Panama.

CLIENT REF.: N/A

SAMPLE ID: **PAN 1502064**
PRODUCT: **LOW SULFUR DIESEL OIL**
SOURCE: **SHORE TANK D 2129**
DATE OF SAMPLE: August 21st, 2015.
SAMPLE DRAWN BY: SGS – OGC Panama.
DATE SAMPLE RECEIVED: August 22nd, 2015.

FACILITIES: **Terminales Atlántica de Panama.**
JOB FILE: **15 - 12790**
WITNESSED BY: N/A
SEAL #: **N/A**
DATE SAMPLE TESTED: August 22nd, 2012.
DATE RESULT SENT: August 24th, 2012.

Job Description: Shore Tank D 2129 / Composite Sample / After Discharge MT"ENERGY PANTHER"

Tests Description	Methods	Units	Minimum	Maximum	Results
√API Gravity@60°F	ASTM D 4052	°API	32.0		34.2
Appearance	ASTM D 4176	N/A	B&C		C&B
ASTM Color	ASTM D 1500	ASTM Scale		2.5	1.0
Water & Sediment	ASTM D 2709	Vol,%		0.05	0
Flash Point,PMCC	ASTM D 93A	°F	140		148
Sulfur Content	ASTM D 4294	% wt		0.05	0.042
Ash Content	ASTM D 482	% wt		0.01	<0.001
Conradson Carbon Residue, 10 % Bott	ASTM D 189	% wt		0.30	0.010
Copper Corrosion, 3Hrs at 100°C	ASTM D 130	Corrosiveness		2	1a
Kinematic Viscosity @40°C	ASTM D 445	cSt	1.9	4.1	2.867
Cetane Index	ASTM D 976	N/A	45		47.2
Distillation	ASTM D 86	°F	------	------	-------
• 10% Recovered			Report	Report	422.3
• 50% Recovered				550	523.4
• 90% Recovered				640	620.0
• FBP				Report	667.2
• Residue				2.0	1.5
• Loss				2.0	0.5
√Lubricity Test@60°C	ASTM D 6079	um		520	340

Form O-038-44 Jun 22, 2010

REMARKS: **Lote#: 0815LDO041** **Volumen Total: 210,427.39 BBLS** **Volumen Disponible: 190,777.39 BBLS**
√ This Test Method is not accredited by CNA

IMPORTANT NOTES: Results were based on analyses made at the time samples were received at the laboratory.
Precision parameters apply in the determination of the test results specified above.
Measurements of uncertainty to be provided upon request.
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